

a driving mechanism coupled to said tool and producing vibrational movement to said tool.

117. The device of claim 116, wherein said driving mechanism includes a piezoelectric device.

118. The device of claim 116, wherein said bone engaging surface has a gradually expanding region behind said cutting edge.

119. The device of claim 118, wherein said gradually expanding region is directly behind said cutting edge.

120. The device of claim 116, wherein said tool includes conduits for passing a lubricating fluid.

121. The device of claim 116, wherein said tool is configured to maintain a substantial portion of bone acted upon by said tool within said bore.

122. The device of claim 116, wherein said cutting edge is located in a generally circular configuration.

123. The device of claim 122, wherein said tool has a concave surface within said circular configuration.

124. A method for developing a bore in living bone, comprising:
engaging a tool with a piezoelectric component, said tool having a lower cutting edge and an expanding cross-sectional region above said lower cutting edge;
inserting said cutting edge into an opening of said bone;
cutting said bone with said cutting edge while simultaneously compacting said bone with said expanding cross-sectional region.

125. The method of claim 124, wherein said tool has regions of constant diameter.